



ADVANCED MANAGEABLE L2 FAST/GIGABIT ETHERNET SWITCH

OV-2228

24 x 10/100M TX Ports
2 x 10/100/1000M TX ports
2 x 1000M TX/SFP combo ports
1 Console port
Network manageable

**Hi-performance, Network Manageable Fast Ethernet Switch**

Proudly presented by OvisLink, OV-2228/OV-2228F/OV-2228PoE is a hi-performance workgroup-level or enterprise-scale switch, with 24 Fast Ethernet ports (24 100M SFP slots for S2228F) plus up to 4 gigabit ports. OvisLink OV-2228/OV-2228F/OV-2228PoE can connect all (Fast) Ethernet devices so that your investment is protected. The hi-speed connection it provides among workgroups can boost the capability of server clusters, and solves the bottleneck caused by increasing users and limited bandwidth, making network resources more available for your enterprise. More importantly, all of the advantages are brought to you by OvisLink at low costs and with easy maintenance and the best support.

Application

OvisLink OV-2228/OV-2228F/OV-2228PoE provides desktop Fast Ethernet and Gigabit Ethernet connectivity, enabling enhanced LAN services for entry-level enterprise, mid-market, and branch office networks. OvisLink OV-2228PoE also provides PoE to allow easy connectivity to Ethernet-powered devices such as IP phones, wireless access points or IP cameras. OvisLink OV-2228PoE complies with IEEE 802.3af. PoE removes the need for wall power to each PoE-enabled device and eliminates the cost for additional electrical cable and circuits that would otherwise be necessary in IP phone, WLAN deployments and video surveillance.

The OvisLink OV-2228/OV-2228F/OV-2228PoE provides:

- Intelligent features at the network edge, such as sophisticated access control lists (ACLs) and enhanced security.
- Combo Gigabit Ethernet ports flexibility, allowing use of either a copper or a fiber uplink. The combo port has one 10/100/1000 Ethernet port and one Small Form-Factor Pluggable (SFP)-based Gigabit Ethernet port, with one port active at a time
- Network control and bandwidth optimization using QoS, granular rate limiting, ACLs (L2-L4), and IGMP Snooping.
- Network security through a wide range of authentication methods, and Network Access Control based on users, ports, and MAC addresses.
- Extended manageability using CLI.
- Manageable through cluster technology allowing management using only one IP address.
- Automatic recognition for straight-through or cross-over cables.
- Lifetime warranty.
- Free software updates.

Features:**- VLAN:**

- Port-based VLAN
- 802.1Q tagged VLAN
- GVRP (GARP VLAN Registration Protocol) to help management and deploy of VLANs
- QinQ (VLAN Stacking)
- Up to 4024 VLAN

- Spanning tree

- 802.1D Spanning tree
- 802.1w Rapid Spanning tree
- 802.1s Multiple Spanning Tree

- Scalability

- LACP and static Port trunking. Up to 3 groups with up to 8 ports per group
- Clustering. Manageability through a single IP address. Up to 256 switches per cluster
- LLDP (Link Layer Discovery Protocol)

- Control

- Traffic control using back pressure at half-duplex and 802.3x at full-duplex
- Port rate limit. 64K step size (100M ports) and 8M step size (1000M ports)
- Storm control. Stop sending at threshold to prevent unicast/multicast/broadcast storms
- IGMP Snooping for multicast traffic control

- QoS

- HOL (Head Of Line) blocking prevention
- 802.1p tagging (8 priorities)
- 4 dispatching queues per port
- FCFS (First Come First Serve) policy
- Strict priority scheduling algorithm
- WRR (Weighted Round Robin) algorithm
- DSCP (Differentiated Services Code Point) tagging

- Security

- 802.1x port-based authentication
- Remote authentication through RADIUS
- Port Security
- MAC, IP and VLAN ACL
- Port-MAC binding
- DHCP Snooping
- IP Source guard
- DoS Prevention

- Management

- SNMP v1/2
- RMON groups 1,2,3,9
- CLI (Telnet, console)
- SSH
- Web interface
- NTP (Network Time Protocol) to provide an accurate and consistent timestamp to all intranet switches.
- Port mirroring based on traffic flow (ingress/egress)
- Software and configuration upload/download via TFTP/FTP



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Hardware:

Performance

- Ports:
 - 24 x 10/100M TX Ports
 - 2 x 10/100/1000M TX ports
 - 2 x 1000M TX/SFP combo ports
 - 1 Console Port
- Switch fabric: 36 Gbps
- Forward rate: All wire-speed forwarding and filtering
- Switching mode: Store and forward
- MAC address table size: 8 K
- Queuing buffer: 64 MB
- FLASH: 4 MB (up to 8 MB)
- SDRAM: 64 MB (up to 128 MB)

Physical

- Dimensions: (L – W – H) 442 – 225 – 44 mm
- Weight: 5,4 Kg
- Power consumption: 25 W
- Power input: AC 100–240 V, 47 ~ 63 Hz, 1A/230V
- LED indicators: Power, system, link, activity
- Temperature: Operating: 0 ~ 50°C, non-operating: -40 ~ 70°C
- Humidity: 0 ~ 90% (no condensing)
- Acoustic noise: 21 dB
- Mean Time Between Failure (MTBF): 178189,1 hours

Standards

- Supported standards:
 - IEEE 802.1D Spanning Tree Protocol
 - IEEE 802.1p CoS Prioritization
 - IEEE 802.1Q VLAN
 - IEEE 802.1s
 - IEEE 802.1w
 - IEEE 802.1x
 - IEEE 802.3ad
 - IEEE 802.3AB
 - IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports
 - IEEE 802.3 10BASE-T specification
 - IEEE 802.3u 100BASE-TX specification
 - IEEE 802.3ab 1000BASE-T specification
 - IEEE 802.3z 1000BASE-X specification
 - 100BASE-FX (SFP)
 - 100BASE-LX (SFP)
 - 1000BASE-SX (SFP)
 - 1000BASE-LX/LH (SFP)
 - 1000BASE-ZX (SFP)
 - RMON I and II standards
 - SNMPv1, SNMPv2

Ordering information

Product	Description
OV-2228	Managed Ethernet switch with 24 10/100M Fast Ethernet ports, 2 * 10/100/1000M TX, 2 * 1000M TX/SFP combo ports, 1 CONSOLE, and standard AC power supply
OV-2228-DC	Managed Ethernet switch with 24 10/100M Fast Ethernet ports, 2 * 10/100/1000M TX, 2 * 1000M TX/SFP combo ports, 1 CONSOLE, and DC power supply
OV-2228F	Managed Ethernet switch with 24 100M SFP slots, 2 * 10/100/1000M TX, 2 * 1000M TX/SFP combo ports, 1 CONSOLE, and standard AC power supply
OV-2228POE	Managed Ethernet switch with 24 10/100M Fast Ethernet ports, 4 * 1000M TX/SFP combo ports, 1 CONSOLE, PoE support, Max. 5.4W power output per port
MGM-1000LC	1-port 1000BaseSX SFP module, multi-mode, LC interface, 500 m, wavelength: 850 nm
MGM-1010LC	1-port 1000BaseLX SFP module, single-mode, LC interface, 10 km, wavelength: 1310 nm
MGM-1040LC	1-port 1000BaseLX SFP module, single-mode, LC interface, 40 km, wavelength: 1310 nm
MGM-1080LC	1-port 1000BaseLX SFP module, single-mode, LC interface, 80 km, wavelength: 1550 nm
MGM-100LC	1-port 100BaseSX SFP module, multi-mode, LC interface, 2km, wavelength: 1310 nm
MGM-115LC	1-port 100BaseSX SFP module, single-mode, LC interface, 15km, wavelength: 1310 nm
MGM-140LC	1-port 100BaseSX SFP module, single-mode, LC interface, 40km, wavelength: 1310 nm
MGM-180LC	1-port 100BaseSX SFP module, single-mode, LC interface, 80km, wavelength: 1550 nm

The functions and corresponding parameters might lightly change depending of the software upgrade, modules, etc. The right of final interpretation belongs to OvisLink. For more information, please contact us.